



GIAC

Exam GSSP-Java

GIAC Secure Software Programmer – Java

Version: 6.0

[Total Questions: 275]

Topic 1, Volume A

Question No : 1 - (Topic 1)

Which of the following elements are the subelements of the mime-mapping element in a deployment descriptor file?

Each correct answer represents a complete solution. Choose all that apply.

- A. exception-type
- B. error-code
- C. extension
- D. mime-type
- E. servlet-class

Answer: C,D

Question No : 2 - (Topic 1)

John works as a Software Developer for VenTech Inc. He writes the following code using Java.

```
public class vClass extends Thread
{
    public static void main(String args[])
    {
        vClass vc=new vClass();
        vc.run();
    }
    public void start()
    {
        for(int k=0;k<20;k++)
        {
```

```
System.out.println("The value of k = "+k);  
  
}  
  
}  
  
}
```

What will happen when he attempts to compile and execute the application?

- A. The application will compile successfully and the values from 0 to 19 will be displayed as the output.
- B. A compile-time error will occur indicating that no run() method is defined for the Thread class.
- C. A runtime error will occur indicating that no run() method is defined for the Thread class.
- D. The application will compile successfully but will not display anything as the output.

Answer: D

Question No : 3 - (Topic 1)

Which of the following classes is an engine class that provides an opaque representation of cryptographic parameters?

- A. DSAPublicKeySpec
- B. AlgorithmParameterGenerator
- C. DSAParameterSpec
- D. AlgorithmParameters

Answer: D

Question No : 4 - (Topic 1)

Which of the following statements about programmatic security are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. The bean provider is responsible for writing code for programmatic security.
- B. It is also called as instance level security.
- C. It is implemented using methods of the EJBContext interface.
- D. It is implemented using the methods of the UserTransaction interface.

Answer: A,B,C

Question No : 5 - (Topic 1)

Which of the following functions are performed by methods of the

HttpSessionActivationListener interface?

Each correct answer represents a complete solution. Choose all that apply.

- A. Notifying the object when it is bound to a session.
- B. Notifying an attribute that a session has just migrated from one JVM to another.
- C. Notifying the object when it is unbound from a session.
- D. Notifying an attribute that a session is about to migrate from one JVM to another.

Answer: B,D

Question No : 6 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops the following deployment descriptor code.

```
<web-app . . . .>
```

```
<display-name>A Secure Application</display-name><servlet>
```

```
...
```

```
<security-role-ref >
```

```
<role-name>Manager</role-name>
```

```
<role-link>Admin</role-link>
```

```
</security-role-ref>
```

```
</servlet>
```

```
<security-role>
```

```
<role-name>Programmer</role-name>
```

```
</security-role>

<security-role>

<role-name>Admin</role-name>

</security-role>

<security-role>

<role-name>Employee</role-name>

</security-role>

</web-app>
```

Which of the following is a valid `isUserInRole()` method call that can be made if request is the

`HttpServletRequest` request?

- A. `request.isUserInRole("Programmer");`
- B. `request.isUserInRole("Manager");`
- C. `request.isUserInRole("Admin");`
- D. `request.isUserInRole("Employee");`

Answer: B

Question No : 7 - (Topic 1)

Which of the following methods of the `EJBContext` interface can be called by both the BMT and CMT beans?

Each correct answer represents a complete solution. Choose all that apply.

- A. `getCallerPrincipal()`
- B. `getRollbackOnly()`
- C. `getUserTransaction()`
- D. `isCallerInRole()`

Answer: A,D

Question No : 8 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops a deployment descriptor code that contains three valid

<security-constraint> elements.

All of them constraining a Web resource Res1, the

<auth-constraint> sub-element of the <security-constraint>

elements are as follows.

<auth-constraint>Admin</auth-constraint>

<auth-constraint>Manager</auth-constraint>

<auth-constraint/>

Which of the following can access the resource Res1?

- A. Only Manager can access the resource.
- B. No one can access the resource.
- C. Everyone can access the resource.
- D. Only Admin can access the resource.

Answer: B

Question No : 9 - (Topic 1)

Which of the following statements correctly describe the features of the singleton pattern?

Each correct answer represents a complete solution. Choose all that apply.

- A. Singletons are used to control object creation by limiting the number to one but allowing the flexibility to create more objects if the situation changes.
- B. Singletons can only be stateless, providing utility functions that need no more information than their parameters.
- C. A singleton class may disappear if no object holds a reference to the Singleton object, and it will be reloaded later when the singleton is needed again.

D. The behavior of a singleton can be obtained by static fields and methods such as `java.lang.Math.sin(double)`.

Answer: A,C,D

Question No : 10 - (Topic 1)

Which of the following deployment descriptor elements must contain the `<transport-guarantee>` element as its mandatory sub-element?

- A. `<user-data-constraint>`
- B. `<web-resource-collection>`
- C. `<auth-constraint>`
- D. `<login-config>`

Answer: A

Question No : 11 - (Topic 1)

Given a code of a class named `PrintString` that prints a string.

1. `public class PrintString{`
2. `public static void main(String args[]){`
3. `/*insert code here */`
4. `/* insert code here */`
5. `System.out.println(str);`
6. `}`
7. `}`

Which of the following code fragments can be inserted in the class `PrintString` to print the output "4247"?

Each correct answer represents a complete solution. Choose all that apply.

- A. `StringBuilder str= new StringBuilder("123456789");`

```
str.delete(0,3).replace(1,3,"24").delete(4,6);  
B. StringBuffer str= new StringBuffer("123456789");  
str.delete(0,3).replace(1,3,"24").delete(4,6);  
C. StringBuffer str=new StringBuffer("123456789");  
str.substring(3,6).delete(1,2).insert(1,"24");  
D. String Builder str= new String Builder("123456789");  
str.deleteCharAt(6).replace(1,3,"24").delete(0,3);  
E. String str="123456789";  
str=(str-"123").replace(1,3,"24")-"89";
```

Answer: A,B

Question No : 12 - (Topic 1)

Mark writes a class Practice.java. This class needs to access the com.bar.Test class that is stored in the Test.jar file in the directory /practice. How would you compile your code?

- A.** javac -classpath /practice/Test.jar Practice.java
- B.** javac -classpath /practice/ Practice.java
- C.** javac -classpath /practice/Test.jar/com/bar Practice.java
- D.** javac -classpath /practice Practice.java

Answer: A

Question No : 13 - (Topic 1)

Which of the following statements is true?

- A.** All UTF characters are eight bits long.
- B.** All UTF characters are all sixteen bits long.
- C.** All UTF characters are twenty four bits long.
- D.** All bytecode characters are sixteen bits long.
- E.** All unicode characters are sixteen bits long.

Answer: E

Question No : 14 - (Topic 1)

John works as a Programmer for Technostar Inc. He writes the following code using Java.

```
1. class WrapperClass{
2. public static void main(String[] argv){
3. String str2 = Double.toString(12);
4. String str1 = Double.toHexString(12);
5. System.out.println(str1+str2);
6. }
7. }
```

What will happen when John attempts to compile and execute the code?

- A. It will not compile because the Double class does not contain the toHexString() method.
- B. It will compile and execute successfully and will display 8p312 as the output.
- C. It will compile and execute successfully and will display 0x1.8p312.0 as the output.
- D. It will not compile because the Double class does not contain the toString() method.

Answer: C

Question No : 15 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops a Website that uses HTML and processes HTML validation. Which of the following are the advantages of the HTML application?

Each correct answer represents a complete solution. Choose all that apply.

- A. It provides password protection for a Web page or directory
- B. It can be accessed by more visitors.
- C. It provides faster loading.
- D. It is easier to update and maintain the site.
- E. It protects the source or images of a HTML Web page.
- F. It puts less load on the server.

Answer: B,C,D,F

Question No : 16 - (Topic 1)

You have written the following code snippet.

```
1. public class Read {  
2.     protected int ReadText(int x) { return 0; }  
3. }  
4. class Text extends Read {  
5.     /*insert code here*/  
6. }
```

Which of the following methods, inserted independently at line 5, will compile?

Each correct answer represents a complete solution. Choose all that apply.

- A. private int ReadText(long x) { return 0; }
- B. protected long ReadText(int x, int y) { return 0; }
- C. protected long ReadText(long x) { return 0; }
- D. protected int ReadText(long x) { return 0; }
- E. private int ReadText(int x) { return 0; }
- F. public int ReadText(int x) { return 0; }
- G. protected long ReadText(int x) { return 0; }

Answer: A,B,C,D,F

Question No : 17 - (Topic 1)

You work as a Software Developer for UcTech Inc. You create a session using the HttpSession interface. You want the attributes to be informed when the session is moved from one JVM to another and also when an attribute is added or removed from the session. Which of the following interfaces can you use to accomplish the task?

Each correct answer represents a complete solution. Choose all that apply.

- A. HttpSessionBindingListener
- B. HttpSessionListener
- C. HttpSessionActivationListener
- D. HttpSessionAttributeListener

Answer: C,D

Question No : 18 - (Topic 1)

Which of the following statements are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. An inner class cannot be defined as private.
- B. An inner class cannot be defined as protected.
- C. An inner class can be defined as private.
- D. An inner class can extend another class.

Answer: C,D

Question No : 19 - (Topic 1)

You work as a programmer for PassGuide.Inc. You have a session object named session1 with an attribute named Attribute1, and an HttpSessionBindingEvent object binding1 bound to session1.

Which of the following will be used to retrieve Attribute1?

Each correct answer represents a complete solution. Choose all that apply.

- A. Object obj=binding1.getSession().getAttribute("Attribute1");
- B. Object obj=binding1.getAttribute("Attribute1");
- C. Long MyAttribute=session1.getAttribute("Attribute1");
- D. String str1=session1.getAttribute("Attribute1");
- E. Object obj=session1.getAttribute("Attribute1");

Answer: A,E

Question No : 20 - (Topic 1)

Which of the following statements about a JAR file are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. It cannot be accessed through a class path, nor they can be used by java and javac.
- B. It is used to compress and archive data.
- C. It can be moved from one computer to another.
- D. It is created by using the jar command.

Answer: B,C,D

Question No : 21 - (Topic 1)

Which of the following statements is true about the Java synchronized keyword?

- A. It prevents multiple threads from accessing a block of code at the same time.
- B. It allows the class to be loaded as soon as the JRE starts.
- C. It prevents multiple developers from code redundancy.
- D. It allows two different functions to execute in a shared manner.

Answer: A

Question No : 22 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops a Web application that takes input from users. Which of the following methods can be used by the client and server to validate the users input?

Each correct answer represents a complete solution. Choose all that apply.

- A. Validation through Servlets on the server side
- B. Validation using JavaScript on the client side
- C. Validation through Java Applets on the client side
- D. Validation through XML on the server side

Answer: A,B

Question No : 23 - (Topic 1)

Which of the following are marker interfaces?

Each correct answer represents a complete solution. Choose all that apply.

- A. The Clonable interface
- B. The Serializable interface
- C. The Comparable interface
- D. The Runnable interface

Answer: A,B

Question No : 24 - (Topic 1)

Which of the following rules must be followed while determining a class loader?

Each correct answer represents a complete solution. Choose all that apply.

- A. A new instance of the AppletClassLoader is used while loading the first class of an applet.
- B. If the request to load a class is triggered by a reference to it from an existing class, the class loader for the existing class is asked to load the class.
- C. A new instance of the URLClassLoader is used while loading the first class of an application.
- D. The primordial class loader is used if java.lang.Class.forName is directly called.

Answer: A,B,C,D

Question No : 25 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He wants to develop a JMS API application that is used as a messaging service application. He writes the following createSession() method.

```
session = connection.createSession(false, 2);
```

Which of the following statements are true about the syntax?

Each correct answer represents a complete solution. Choose all that apply.

- A. The client acknowledges a consumed message by calling the message's acknowledge method.
- B. The acknowledge method can reduce session overhead by minimizing the work the session does to prevent duplicates.
- C. This method instructs the session to lazily acknowledge the delivery of messages.
- D. The session automatically acknowledges a client's receipt of a message.

E. If a message consumer consumes eight messages and then acknowledges the fourth message delivered, all eight messages are acknowledged.

Answer: A,E

Question No : 26 - (Topic 1)

Which of the following statements are true about object serialization?

Each correct answer represents a complete solution. Choose all that apply.

- A. After deserialization, objects have the same state as it had when it was serialized.
- B. It uses ObjectOutputStream to deserialize objects.
- C. It uses the ObjectInput and ObjectOutput interfaces.
- D. An object will have the same state at deserialization as it had at the time it was serialized if all its superclasses are also serializable.

Answer: A,C,D

Question No : 27 - (Topic 1)

Which of the following methods of the HttpServletResponse interface is used for URL rewriting?

Each correct answer represents a complete solution. Choose all that apply.

- A. encodeURL
- B. encodeRedirectURL
- C. sendRedirect
- D. getRequestURL()

Answer: A,B

Question No : 28 - (Topic 1)

You work as a Software Developer for NewTech Inc. You write a bean class using Enterprise

JavaBeans 3.0. The class uses the `@DeclareRoles` ("ADMIN, HR, DBA, USER") annotation to declare the security roles. The class contains a method named `showResult()`. You want to ensure that the ADMIN role is granted privilege to the `showResult()` method. Moreover, if a role that is not allowed to access the method tries to call the method, an error message must be shown. Assuming that there is no security-related element in the deployment descriptor, which of the following will you use to accomplish the task?

Each correct answer represents a part of the solution. Choose two.

- A. The `isCallerInRole()` method
- B. The `getCallerPrincipal()` method
- C. The `@RolesAllowed("ADMIN")` annotation
- D. The `@PermitAll` annotation

Answer: A,C

Question No : 29 - (Topic 1)

Which of the following statements about the `String`, `StringBuffer`, and `StringBuilder` classes are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. The `StringBuffer` class offers faster performance than the `StringBuilder` class.
- B. The `StringBuffer` class is thread-safe while the `StringBuilder` class is not.
- C. A character in a string can be searched using the `indexOf()` operator.
- D. The return type of the `trim()` method present in the `String` class is `void`.

Answer: B,C

Question No : 30 - (Topic 1)

Which of the following listeners causes an object of the implementing class to be notified when it is added to or removed from a session?

- A. `HttpSessionListener`
- B. `HttpSessionActivationListener`
- C. `HttpSessionAttributeListener`
- D. `HttpSessionBindingListener`

Answer: D

Question No : 31 - (Topic 1)

Which of the following fields must be present in the login page when using the form-based authentication?

Each correct answer represents a part of the solution. Choose two.

- A. j_login
- B. j_password
- C. get_pw
- D. j_pw
- E. j_username
- F. user_pw

Answer: B,E

Question No : 32 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He wants to define the security constraint for an application that allows users with the role of Manager access to the POST method of all resources with

the URL pattern /acme/Manager/*, and also allow users with the role of Editor access to the POST method of all resources with the URL pattern /acme/Editor/*. Which of the following code will be used to declare the security element?

A. <security-constraint>
<web-resource-collection>
<web-resource-name>Manager</web-resource-name>
<url-pattern>/acme/Manager/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Manager</role-name>
</auth-constraint>
</security-constraint>

```
<security-constraint>
<web-resource-collection>
<web-resource-name>Editor</web-resource-name>
<url-pattern>/acme/Editor/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Editor</role-name>
</auth-constraint>
</security-constraint>
```

B. <security-constraint>

```
<web-resource-collection>
<web-resource-name>Manager</web-resource-name>
<url-pattern>/acme/Manager/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Manager</role-name>
</auth-constraint>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Editor</role-name>
</auth-constraint>
</security-constraint>
```

C. <security-constraint>

```
<web-resource-collection>
<web-resource-name>Manager</web-resource-name>
<url-pattern>/acme/Manager/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Manager</role-name>
</auth-constraint>
<auth-constraint>
<role-name>Editor</role-name>
</auth-constraint>
</security-constraint>
```

D. <security-constraint>

```
<web-resource-collection>
<web-resource-name>Manager</web-resource-name>
<url-pattern>/acme/Manager/*</url-pattern>
```

```
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<web-resource-collection>
<web-resource-name>Editor</web-resource-name>
<url-pattern>/acme/Editor/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>Manager</role-name>
</auth-constraint>
</security-constraint>
```

Answer: A

Question No : 33 - (Topic 1)

Which of the following <security-constraint> sub-elements specifies which users in specified roles are permitted access to a resource collection?

- A. <user-data-constraint>
- B. <web-resource-collection>
- C. <url-pattern>
- D. <auth-constraint>

Answer: D

Question No : 34 - (Topic 1)

In which of the following directories will files be searched when the classpath is specified by the syntax below. -classpath uc\JavaFiles\NewFiles;uc\ServletFiles;.;

- A. The current directory, the NewFiles directory, and the ServletFiles directory
- B. The current directory, the uc directory, the NewFiles directory, and the ServletFiles directory
- C. The current directory, the uc directory, the JavaFiles directory, the NewFiles directory, and the ServletFiles directory
- D. The uc directory, the JavaFiles directory, the NewFiles directory, and the ServletFiles directory

Answer: A

Question No : 35 - (Topic 1)

Which of the following is the appropriate deployment descriptor elements entry for the code given below?

```
@RunAs("admin")
```

```
@Stateless public class StudentBean implements Student {
```

```
//more code ...
```

```
}
```

A. <enterprise-beans>

```
...  
<session>  
.  
<ejb-name>Student</ejb-name>  
...  
<security-identity>  
<run-as>  
<method-permission>admin</method-permission>  
</run-as>  
</security-identity>  
...  
</session>
```

B. <enterprise-beans>

```
...  
<session>  
.  
<ejb-name>Student</ejb-name>  
...  
<security-identity>  
<run-as>  
<role-name>admin</role-name>  
</run-as>  
</security-identity>  
...  
</session>
```

```
..  
</enterprise-beans>  
C. <enterprise-beans>  
...  
<session>  
.  
<ejb-name>Student</ejb-name>  
...  
<security-identity>  
<run-as>  
< security-role-ref>admin</ security-role-ref>  
</run-as>  
</security-identity>  
...  
</session>  
..  
</enterprise-beans>  
D. <enterprise-beans>  
...  
<session>  
.  
<ejb-name>Student</ejb-name>  
...  
<security-identity>  
<run-as>admin</run-as>  
</security-identity>  
...  
</session>  
..  
</enterprise-beans>
```

Answer: B

Question No : 36 - (Topic 1)

Which of the following methods is used to request that any pending finalizers be run for objects eligible for garbage collection?

- A. freeMemory()
- B. gc()
- C. runFinalization()
- D. runFinalizers()

Answer: C

Question No : 37 - (Topic 1)

Martin works as a Programmer in Data Net Inc. He writes the following code.

```
1. class Ques0191{
2. public static void main(String[] argv){
3. byte a = 1;
4. switch(a+1){
5. case 1.
6. System.out.println("One");
7. case 2.
8. System.out.println("2");
9. case 2.
10. System.out.println("Two"); break;
11. }
12. }
13. }
```

What will happen when Martin attempts to compile and execute the code?

- A.** The code will compile successfully, but a runtime error will occur because of the duplicate case label at line number 9.
- B.** The code will not compile because of the duplicate case label at line number 9.
- C.** The code will compile successfully and will execute displaying 2 followed by Two.
- D.** The code will not compile because an argument to the switch must be a constant.

Answer: B

Question No : 38 - (Topic 1)

You work as a Software Developer for UcTech Inc. You want to declare a security constraint in the deployment descriptor using the <transport-guarantee> element. Which of the following can be the possible values for the element?

Each correct answer represents a complete solution. Choose all that apply.

- A. CONFIDENTIAL
- B. ALL
- C. NONE
- D. INTEGRAL

Answer: A,C,D

Question No : 39 - (Topic 1)

Which of the following methods must be implemented by each subclass of the Permission class to compare permissions?

- A. hashCode
- B. implies
- C. newPermissionCollection
- D. equals

Answer: B

Question No : 40 - (Topic 1)

You work as a Software Developer for UcTech Inc. You want to write a filter that will implement the Filter interface. Which of the following methods will you use to accomplish the task?

Each correct answer represents a complete solution. Choose all that apply.

- A. doPostFilter()
- B. doGetFilter()
- C. doFilter()
- D. init()
- E. service()

Answer: C,D

Question No : 41 - (Topic 1)

Which of the following is used to restore the objects that have been previously serialized by a stream?

- A. FileInputStream
- B. ObjectOutputStream
- C. ObjectInputStream
- D. FileOutputStream

Answer: C

Question No : 42 - (Topic 1)

You work as a Software Developer for UcTech Inc. You build an online book shop, so that users can purchase books using their credit cards. You want to ensure that only the administrator can access the credit card information sent by users. Which security mechanism will you use to accomplish the task?

- A. Confidentiality
- B. Authorization
- C. Authentication
- D. Data integrity

Answer: A

Question No : 43 - (Topic 1)

You work as a Programmer for InfoTech Inc and develop the following two

<security-constraint>

declarations.

<security-constraint>

<web-resource-collection>

```
<web-resource-name>Manager</web-resource-name>
```

```
<url-pattern>/acme/Manager/*</url-pattern>
```

```
<http-method>GET</http-method>
```

```
<http-method>POST</http-method>
```

```
</web-resource-collection>
```

```
<auth-constraint/>
```

```
</security-constraint>
```

```
<security-constraint>
```

```
<web-resource-collection>
```

```
<web-resource-name>Manager</web-resource-name>
```

```
<url-pattern>/acme/Manager/*</url-pattern>
```

```
<http-method>GET</http-method>
```

```
<http-method>POST</http-method>
```

```
</web-resource-collection>
```

```
<auth-constraint>
```

```
<role-name>Manager</role-name>
```

```
</auth-constraint>
```

```
</security-constraint>
```

Which of the following statements is true about the <auth-constraint> in the code given above?

- A. Nobody is allowed to access the specified resources.
- B. Only Manager is allowed to access the specified resources.
- C. The first <security-constraint> element declaration is incorrect.
- D. It is not possible to define the multiple security constraint on a single resource.

Answer: A

Mark works as a Programmer for InfoTech Inc. He develops a Java application that uses the encryption and compression techniques. Which of the following interfaces will he use to control the serialization and deserialization processes?

- A. Flushable
- B. Closeable
- C. Serializable
- D. Externalizable

Answer: D

Question No : 45 - (Topic 1)

Which of the following methods is used to encrypt or decrypt data in a single step?

- A. wrap()
- B. update()
- C. digest()
- D. doFinal()

Answer: D

Question No : 46 - (Topic 1)

Which of the following methods belongs to the FilterConfig interface and ServletConfig interface both?

Each correct answer represents a complete solution. Choose all that apply.

- A. getInitParameter()
- B. getServletContext()
- C. getFilterName()
- D. getInitParameterNames()

Answer: A,B,D

Question No : 47 - (Topic 1)

You work as a Software Developer for UcTech Inc. You want to use form-based authentication as a security mechanism in your application. Which of the following entries will you use in your login page to accomplish the task?

Each correct answer represents a part of the solution. Choose all that apply.

- A. j_pw
- B. j_security_check
- C. password
- D. _jidl
- E. j_username
- F. j_password
- G. jidl
- H. j_un

Answer: B,E,F

Question No : 48 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops a session bean class named accountService. Which of the following rules must be conformed by the session bean class?

Each correct answer represents a complete solution. Choose all that apply.

- A. It can be used without the @Stateful or @Stateless annotation.
- B. It must implement the business methods defined in the business interface.
- C. It can implement any optional business method annotated by the @Remove annotation.
- D. It must have a public constructor that takes a string as its parameter.
- E. It requires helper classes to meet the needs of an application.

Answer: B,C,E

Question No : 49 - (Topic 1)

Which of the following methods performs the authentication of subject and, if successful, associates Principals and Credentials with the authenticated Subject?

- A. The getSubject() method of the LoginContext class

- B. The login() method of the LoginModule interface
- C. The login() method of the LoginContext class
- D. The initialize() method of the LoginModule class

Answer: C

Question No : 50 - (Topic 1)

What will be the output of the following program?

```
class Stringtest
{
    public static void main(String args[])
    {
        String s= "test";
        s.concat("paper");
        System.out.println(s);
    }
}
```

- A. It will display test.
- B. It will display testpaper.
- C. It will generate a compile-time error.
- D. It will display paper.

Answer: A

Question No : 51 - (Topic 1)

Mark works as an Application Developer for XYZ Solutions Inc. He writes the following code.

```
public class TestDemo{public static void main(String[] args){
```

```
{try{int x =0;int d= 5/x;}catch(Exception ex){System.out.println("Exception");}  
catch(ArithmeticException ae){System.out.println("Arithmetic Exception");}}}
```

What is the result when Mark tries to compile and execute the code?

- A. Exception
- B. An exception is thrown at runtime.
- C. Compilation fails.
- D. Arithmetic Exception

Answer: C

Question No : 52 - (Topic 1)

Which directory in JAR files is used to store package and extension configuration data?

- A. META-INF
- B. GAMMA-INF
- C. ZIP-INF
- D. TAR-INF

Answer: A

Question No : 53 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He creates a program that uses the following code.

1. class Book
2. {
3. Short f1= 15;
4. Book GetDetails(Book b1)
5. {
6. b1=null;

```
7. return b1;

8. }

9. public static void main(String args[])

10. {

11. Book b1 = new Book();

12. Book b2 = new Book();

13. Book b3 = b1.GetDetails(b2);

14. b1=null;

15. //code

16. }

17. }
```

How many objects will be eligible for garbage collection when line 15 is reached?

- A. It cannot be determined.
- B. 1
- C. 2
- D. 0

Answer: C

Question No : 54 - (Topic 1)

Which of the following are valid thread state transitions?

Each correct answer represents a complete solution. Choose all that apply.

- A. From running to ready.
- B. From ready to waiting.
- C. From running to waiting.
- D. From waiting to ready.
- E. From ready to running.
- F. From waiting to running.

Answer: A,C,D,E

Question No : 55 - (Topic 1)

You work as a Programmer for InfoTech Inc. You write the following code.

```
1. public class InnerDemo{
2. public static void main(String[] args) {
3. Car c = new Car();
4. // insert code here
5. e.test();
6. }
7. }
8. class Car{
9. class Engine{
10. void test() {System.out.println("test"); }
11. }
12. }
```

Which of the following options should you add to line 4 so that the code compiles and produces the output "test"?

- A. Car.Engine e = c.new Engine();
- B. Engine e = c. new Engine();
- C. c.Engine e = Car.new Engine();
- D. Car.Engine e = Car.new Engine();

Answer: A

Question No : 56 - (Topic 1)

In which of the following cases is the GET method used to retrieve information?

Each correct answer represents a complete solution. Choose all that apply.

- A. Using a hyperlink inside a Web page.
- B. Using a form with no method definition.
- C. Adding the request parameter to the URL.
- D. Requesting to retrieve a large amount of data.

Answer: A,B,C

Question No : 57 - (Topic 1)

Which of the following code is used to create an object of security manager?

- A. `SecurityManager appsm = getClassContext();`
- B. `SecurityManager appsm = System.getSecurityDescriptor();`
- C. `SecurityManager appsm = System.getSecurityManager();`
- D. `SecurityManager appsm = getSecurityContext();`

Answer: C

Question No : 58 - (Topic 1)

Which of the following methods returns a Cipher object that implements the specified transformation?

- A. `getCallerIdentity()`
- B. `getObject()`
- C. `getHeader()`
- D. `getInstance()`

Answer: D

Question No : 59 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops the following code snippet.

1. `public class Header`

```
2. {  
3. //code//  
4. {  
5. System.out.println("Print the code.");  
6. super.finalize();  
7. }  
8. }
```

Which of the following header statements should be placed at line 3 to execute the program

successfully?

- A. void finalize() throws Exception
- B. private void finalize() throws Exception
- C. protected void finalize() throws Throwable
- D. void finalize() throws Throwable

Answer: C

Question No : 60 - (Topic 1)

Dennis works as a Programmer in Broadnet Inc. He writes the following program.

```
1. public class Ques0307{  
2. public static void main(String[] argv){  
3. int arr[] = {1, 2, 3, 4};  
4. try{  
5. int k = 0;  
6. for(; k < 4; k++)  
7. arr[k] = arr[k] + 1;  
8. System.out.println("try");
```

```
9. }  
10. catch(ArrayIndexOutOfBoundsException a){  
11. System.out.println("index " +k +" not found");  
12. }  
13. catch(Exception e){  
14. System.out.println("catch1");  
15. }  
16. finally{  
17. System.out.println("finally");  
18. }  
19. }  
20. }
```

What will happen when Dennis attempts to compile and execute the program?

- A. A compile-time error will occur.
- B. The program will display index 0 not found catch1 finally
- C. The program will display index 4 not found finally
- D. The program will display try finally

Answer: A

Question No : 61 - (Topic 1)

Which of the following is a mandatory sub-element of the <web-resource-collection> element of the deployment descriptor?

- A. <web-resource-name>
- B. <description>
- C. <http-method>
- D. <url-pattern>

Answer: A

Question No : 62 - (Topic 1)

Which of the following statements are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. StringBuffer is thread safe, but StringBuilder is not.
- B. The String class is final.
- C. StringBuilder offers faster performance than StringBuffer.
- D. The size of the String can be obtained using the length property.

Answer: A,B,C

Question No : 63 - (Topic 1)

The following JSP scriptlet is given.

```
<% response.setContentType("text/html; charset=ISO-8859-1"); %>
```

Which of the following directives is the equivalent directive for the scriptlet given above?

- A. <%@ include contentType="text/html; pageEncoding=ISO-8859-1" %>
- B. <%@ include contentType="text/html; charset=ISO-8859-1" %>
- C. <%@ page contentType="text/html; charset=ISO-8859-1" %>
- D. <%@ taglib contentType="text/html; pageEncoding=ISO-8859-1" %>

Answer: C

Question No : 64 - (Topic 1)

You write the following code.

```
class Father {public void Method() {System.out.println("I am Father");}}

public class Son extends Father {public static void main(String argv[]) {Son son = new
Son();son.Method();}

private void Method() {System.out.println("I am Son");}}
```

Which of the following will be the result, when you try to compile and run the code?

- A. I am Father will be displayed as the output.
- B. A runtime error will result.
- C. I am Son will be displayed as the output.
- D. The code will execute but without displaying any output.
- E. A compile-time error will result.

Answer: E

Question No : 65 - (Topic 1)

Given below are top-level class declarations. Which of these class declarations would not produce a compile-time error?

abstract class P {} //1

private class Q {} //2

static class R {} //3

transient class S {} //4

- A. Line 3
- B. Line 1
- C. Line 2
- D. Line 4

Answer: B

Question No : 66 - (Topic 1)

Which of the following statements about the <auth-constraint> element are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. It is an optional sub-element of the <security-constraint> element.
- B. It has <role-name> and <role-type> as its sub-elements.
- C. If the <auth-constraint> element is not present, all users can access the resource.
- D. If the <auth-constraint> element has no <role-name> sub-element, all users can access the resource.

Answer: A,C

Question No : 67 - (Topic 1)

Which of the following methods is used to authenticate the users, and if the user has not been authenticated, the method returns false?

- A. getCallerPrincipal()
- B. getRemoteUser()
- C. isUserInRole()
- D. getCallerIdentity()

Answer: C

Question No : 68 - (Topic 1)

Which of the following mechanisms is closely related to authorization?

- A. Sending data so that no one can alter it on the way.
- B. Allowing access to a particular resource.
- C. Verifying username and password.
- D. Sending secret data such as credit card information.

Answer: B

Question No : 69 - (Topic 1)

You work as a Programmer for InfoTech Inc. You develop two html pages named authenticate.jsp and error.jsp, which are deployed directly at the root of the Web application named Authentication. Which of the following deployment descriptor code declarations will be used to ensure that the error.jsp page will be displayed automatically if the client is not authenticated?

- A. <login-config>
<auth-method>FORM</auth-method>
<form-login-config>
<form-login-page>/authenticate.jsp</form-login-page>

```
<form-error-page>/error.jsp</form-error-page>
</form-login-config>
</login-config>
B. <user-data-constraint>
<auth-method>FORM</auth-method>
<login-page>/authenticate.jsp</login-page>
<form-error-page>/error.jsp</form-error-page>
</user-data-constraint>
C. <auth-constraint>
<auth-method>FORM</auth-method>
<login-page>/authenticate.jsp</login-page>
<form-error-page>/error.jsp</form-error-page>
</auth-constraint>
D. <error-page>
<auth-method>FORM</auth-method>
<form-login-page>/authenticate.jsp</form-login-page>
<location>/error.jsp</location>
</error-page>
```

Answer: A

Question No : 70 - (Topic 1)

Which of the following are advantages of client-side JavaScript?

Each correct answer represents a complete solution. Choose two.

- A. It is fast.
- B. It provides graphical components.
- C. It is secure.
- D. It provides form-validation at client side.

Answer: A,D

Question No : 71 - (Topic 1)

You work as a Software Developer for NewTech Inc. You want to configure the deployment descriptor so as to specify the error pages used in the FORM based authentication. Which of the following elements will you use to accomplish the task?

- A. The <realm-name> sub-element of the <login-config> element.
- B. The <role-link> sub-element of the <security-role-ref> element.
- C. The <method> sub-element of the <method-permission> element.
- D. The <form-login-config> sub-element of the <login-config> element.

Answer: D

Question No : 72 - (Topic 1)

Mark works as a Programmer for InfoTech Inc. He develops a class named Data that imports all the required packages. The class Data uses a method named PrintData(), which uses a method that checks whether the caller has a BeanUser security role. Which of the following code of the method PrintData() will satisfy the requirement?

- A.

```
public void PrintData()
{
    @DeclareRoles("BeanUser")
    @Resource SessionContext ctx;
    @RolesAllowed("BeanUser")
    Principal caller = ctx.getCallerPrincipal();
    if (ctx.getCallerIdentity("BeanUser")) {
        System.out.println("It is the correct user");
    }
    else{System.out.println("It is the incorrect user");} //more code}
```
- B.

```
public void PrintData()
{
    @DeclareRoles("BeanUser")
    @Resource SessionContext ctx;
    @RolesAllowed("BeanUser")
    Principal caller = ctx.getEJBHome();
    if (!isCallerInRole(ctx)) {System.out.println("It is the correct user");}
    else{System.out.println("It is the incorrect user");} //more code}
```
- C.

```
public void PrintData()
{
    @DeclareRoles("BeanUser")
    @Resource SessionContext ctx;
    @RolesAllowed("BeanUser")
    Principal caller = ctx.getCallerPrincipal();
    if (ctx.isCallerInRole("BeanUser")) {
        System.out.println("It is the correct user");
    }
    else{System.out.println("It is the incorrect user");} //more code}
```
- D.

```
public void PrintData()
{
    @DeclareRoles("BeanUser")
    @Resource SessionContext ctx;
    @RolesAllowed("BeanUser")
    Principal caller = ctx.getCallerPrincipal();
```

```
if (ctx.getStatus("BeanUser")) {System.out.println("It is the correct user");}  
else{System.out.println("It is the incorrect user");}//more code}
```

Answer: C

Question No : 73 - (Topic 1)

Which of the following methods can be invoked from the ejbStore() method of an entity bean class?

Each correct answer represents a complete solution. Choose all that apply.

- A. getPrimaryKey()
- B. getUserTransaction()
- C. getRollbackOnly()
- D. isCallerInRole()
- E. getEJBObject()

Answer: A,C,D,E

Question No : 74 - (Topic 1)

Harry works as a Software Developer for SoftTech Inc. He has developed a Java application to perform various SQL statements such as INSERT, UPDATE, etc., against a database table named Employee. He has used the executeUpdate() method to perform various SQL queries and to know the exact affected rows in the database if any of the operations is performed against the database table.

Which of the following types of values is returned by this method?

- A. Double
- B. Integer
- C. Float
- D. String

Answer: B

Question No : 75 - (Topic 1)

Drag and drop the appropriate authentication types from the given options to match their properties.

BASIC	FORM	DIGEST	CLIENT-CERT
Transmits data in the hashed form			PlaceHere
Transmits data in the form of public key certificates			PlaceHere
Less secure but allows user to create customized look			PlaceHere
Less secure and bad looking forms			PlaceHere

A.

Answer: A

Question No : 76 - (Topic 1)

Which of the following are valid class declarations?

Each correct answer represents a complete solution. Choose all that apply.

- A. public abstract final Ques0160c
- B. public abstract class Ques0160a
- C. final public class Ques0160b
- D. native synchronized class Ques0160d

Answer: B,C

Question No : 77 - (Topic 1)

Which of the following exceptions will be thrown if the caller does not have permission to invoke the doAsPrivileged method?

- A. LoginException
- B. NullPointerException
- C. SecurityException
- D. PrivilegedActionException

Answer: C

Question No : 78 - (Topic 1)

Which of the following statements about the `isCallerInRole()` method are true?

Each correct answer represents a complete solution. Choose all that apply.

- A.** It can be called from the `PostConstruct` and `PreDestroy` callback methods of a stateful session bean.
- B.** It is present in the `UserTransaction` interface.
- C.** It cannot be called from a message-driven bean.
- D.** It can be invoked only from the business method of an enterprise bean.

Answer: A,C,D

Question No : 79 - (Topic 1)

Which of the following actions can you take to seal two packages, `PackageA` and `PackageB`, in the JAR file `MyJar.jar`?

Each correct answer represents a complete solution. Choose all that apply.

- A.** Execute the following command.
`jar cvf MyJar.jar Manifest.txt MyPackage/*.class`
- B.** Create a text file named `Manifest.txt` with the following contents.
Name. `myCompany/*Sealed. true`
- C.** Execute the following command.
`jar cmf MyJar.jar Manifest.txt MyPackage/*.class`
- D.** Create a text file named `Manifest.txt` with the following contents.
Name. `myCompany/PackageA/Sealed. true`
Name. `myCompany/PackageB/`
Sealed. `true`

Answer: C,D

Question No : 80 - (Topic 1)

Sam works as a Software Developer for Gentech Inc. He writes the following code.

```
1. class TryFinallyTest {  
2. public static void main(String[] args) {  
3. try {  
4. int i=15/0;  
5. System.out.println("Testing Try");  
6. }  
7. catch(ArithmeticException ae) {  
8. System.out.println("Arithmetic exception");  
9. }  
10. System.out.println("Correct");  
11. finally {  
12. System.out.println("Must execute");  
13. }  
14. }  
15. }
```

What will happen when he attempts to compile and execute the code?

- A. It will compile successfully and run with output Arithmetic exception.
- B. It will compile successfully and run with output Must execute.
- C. It will compile successfully and run with output Correct.
- D. It will give a compile-time error.

Answer: D

Question No : 81 - (Topic 1)

Which of the following are valid code samples for creating file permissions?

Each correct answer represents a complete solution. Choose all that apply.

- A. FilePermission per = new FilePermission("-", "read, execute");
- B. FilePermission per = new FilePermission("<<ALL FILES>>", "read");
- C. FilePermission per = new FilePermission("file1", "read, write");
- D. FilePermission per = new FilePermission("/bin/*", "execute");
- E. FilePermission per = new FilePermission("/tmp/myfile", "read, delete");
- F. FilePermission per = new FilePermission("/*", "read");

Answer: A,B,C,D,E

Question No : 82 - (Topic 1)

Which of the following code declarations are valid error-page declarations?

Each correct answer represents a complete solution. Choose all that apply.

- A. <error-page>
<exception-type>java.lang.ArithmeticException</exception-type>
<error-code>304</error-code>
<location>NumericalException.jsp</location>
</error-page>
- B. <error-page>
<error-code>304</error-code>
<location>NumericalException.jsp</location>
</error-page>
- C. <error-page>
<exception-type>304</exception-type>
<targetSource>NumericalException.jsp</targetSource>
</error-page>
- D. <error-page>
<exception-type>java.lang.ArithmeticException</exception-type>
<location>NumericalException.jsp</location>
</error-page>
- E. <error-page>
<exception-type>304</exception-type>
<location>NumericalException.jsp</location>
</error-page>

Answer: B,D

Question No : 83 - (Topic 1)

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70-410 Dump PDF VCE	70-640 Dump PDF VCE	77-600 Dump PDF VCE	MB2-712 Dump PDF VCE
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70-481 Dump PDF VCE	70-698 Dump PDF VCE	98-362 Dump PDF VCE	MB6-889 Dump PDF VCE
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200-310 Dump PDF VCE	500-006 Dump PDF VCE	642-997 Dump PDF VCE	700-039 Dump PDF VCE
200-355 Dump PDF VCE	500-007 Dump PDF VCE	642-998 Dump PDF VCE	700-101 Dump PDF VCE
200-401 Dump PDF VCE	500-051 Dump PDF VCE	642-999 Dump PDF VCE	700-104 Dump PDF VCE
200-601 Dump PDF VCE	500-052 Dump PDF VCE	644-066 Dump PDF VCE	700-201 Dump PDF VCE
210-060 Dump PDF VCE	500-170 Dump PDF VCE	644-068 Dump PDF VCE	700-205 Dump PDF VCE
210-065 Dump PDF VCE	500-201 Dump PDF VCE	644-906 Dump PDF VCE	700-260 Dump PDF VCE
210-250 Dump PDF VCE	500-202 Dump PDF VCE	646-048 Dump PDF VCE	700-270 Dump PDF VCE
210-255 Dump PDF VCE	500-254 Dump PDF VCE	646-365 Dump PDF VCE	700-280 Dump PDF VCE
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